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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 8891-2025

Replacing GB/T 8891-2013

Copper and copper alloy tubes for heat radiators

铜及铜合金散热管

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Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 8891-2013 "Copper and Copper Alloy Heat Dissipation Pipes". Compared with GB/T 8891-2013, the main differences are in structural adjustments and rewriting. Aside from the logical changes, the main technical changes are as follows:

- a) Product "Classification and Labelling" has been changed (see Chapter 4, 3.1 of the 2013 edition);
- b) Added grade "H96" (see Table 1); changed the status of grade "T2" and the specifications of grade "TU0" (see Table 1, 2013 edition). (Table 1)
- c) Technical requirements for the dimensions and permissible deviations of trapezoidal tubes have been added (see Table 5);
- d) Technical requirements for the fillet radius of rectangular and trapezoidal tubing have been added (see 5.2.5);
- e) The technical requirements and test methods for the "hardness test" have been added (see Table 12 and 6.3.2);
- f) The technical requirements and test methods for the "pneumatic test" have been revised (see 5.4.1 and 6.4.1, 4.4 in the 2013 edition);
- g) The chemical composition analysis method has been changed (see 6.1, 4.1 in the 2013 edition);
- h) The method for room temperature tensile testing of pipes has been modified (see 6.3.1,

1 Scope

GB/T 8891-2025 is the Chinese national standard covering the copper tube in a radiator core - its alloy and temper, the wall thickness tolerances that decide how thin it can be drawn without failing, the flattening and expanding tests, and the internal cleanliness. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 8891-2013.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2828.1 Sampling Procedures for Inspection by Attributes - Part

1.Sampling Schemes Retrieved by Acceptable Quality Limit (AQL) for Lot-by-Lot Inspection

GB/T 4340.1 Metallic materials - Vickers hardness test - Part

GB/T 5121 (all parts) Chemical analysis methods for copper and copper alloys

GB/T 5231 Grades and Chemical Compositions of Processed Copper and Copper Alloys

GB/T 5248 Eddy current testing method for seamless copper and copper alloy tubes

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 8888 Packaging, marking, transportation, storage and quality certificate of heavy non-ferrous metal processed products

GB/T 10567.2 Test method for residual stress in copper and copper alloy processed materials - ammonia fumigation test method

GB/T 26303.1 Methods for dimensional inspection of copper and copper alloy processed materials - Part

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Classification and Labeling

4.1 Product Classification The grade, code, condition, and specifications of the pipes shall conform to the provisions of Table 1.A schematic diagram of the cross-section of the pipes

is shown in Figure

1. This shall be determined through negotiation between the supplier and the buyer. Other grades or specifications of pipes can be supplied.

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